DOCKET NO.: 81136575 (formerly DE020316US)

## IN THE CLAIMS:

## Kindly replace the claims of record with the following full set of claims:

1 (Currently amended) . A method of filtering an image with bar-shaped structures by means of Gabor filters, which are formed in the spatial domain by a two-dimensional Gaussian bell-shaped curve on which a cosine function is super imposed in a main direction, characterized in that;

the image is divided into a plurality of original, non-overlapping tiles of a known side length, that

a predominant direction of the bar-shaped structures is determined for each tile and the filtration is undertaken in such a way that one tile at a time is rotated until the predominant direction lies at right angles to the main direction of the Gabor filter, that

one filtration takes place in the main direction and another filtration takes place at right angles to this; wherein in order to filter a tile of said known side length, that does not overlap with adjacent tiles, a larger tile is formed that partially overlaps the adjacent tiles and is of a size having a diagonal of at least double the known side length of the original tile, and after the rotation, a block having a diagonal of corresponding to larger block is buffered and filtration of the buffered block is performed in a square having a side length corresponding to at least a diagonal of said original tile; and that

the filtered tile is rotated back again to obtain a filtered tile of said known side length.

2. (Original) A method as claimed in claim 1, characterized in that, tile by tile, for one of the filtrations, a cosine oscillation with a frequency equal to the frequency of the

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structure at right angles to the predominant direction is derived, and in that the cosine

oscillation is modulated with a Gaussian bell-shaped curve.

3. (Original) .A method as claimed in claim 1, characterized in that, tile by tile, for the

other of the filtrations, width of the Gaussian bell-shaped curve depends on the change in

direction of the structures on the tile.

4. (Previously presented) A method as claimed in claim 2 characterized in that the

width of the Gaussian bell-shaped curve in the direction of the cosine oscillation is set to

depend on the change in frequency on the tile.

5. (Previously presented)A method as claimed in claim1 characterized in that selected

angles, which are implemented in a particular program, are defined for the rotation, and

then one of the defined angles that most closely accords with the rotation that is

necessary per se is used for application of the filtration.

6. (Previously presented) A method as claimed in claim1 characterized in that during the

rotation, low-pass filtration takes place through interpolation.

7. (Previously presented) A method as claimed in claim 1, characterized in that

binarization takes place simultaneously during the back-rotation.

8. (Cancelled).

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9. (Previously presented) A method as claimed in claim 1, characterized in that entries (values) lying below a threshold value and located at the edges of the one-dimensional filters are not taken into account during the filtration.